

BULLETIN  
(formerly JOURNAL)  
OF THE  
AMERICAN GEOGRAPHICAL SOCIETY

---

MDCCCXCIX



VOL. XLI

NEW YORK  
PUBLISHED BY THE SOCIETY

G12  
A512bj2  
v. 41

EDITOR:  
CYRUS C. ADAMS

LIBRARIAN:  
FREDERICK S. DELLENBAUGH

ASSOCIATE EDITORS:

ISAIAH BOWMAN, Asst. Professor of Geography, Yale University.  
ALBERT PERRY BRIGHAM, Professor of Geology, Colgate University.  
FREDERICK S. DELLENBAUGH, American Geographical Society.  
RICHARD E. DODGE, Teachers College, Columbia University.  
J. WALTER FEWKES, Bureau of American Ethnology.  
HENRY GANNETT, U. S. Geological Survey.  
M. K. GENTHE, Hartford.  
WILLIAM LIBBEY, D.Sc., Princeton University.  
RALPH S. TARR, Cornell University.  
ROBERT DeC. WARD, Harvard University.

*Replacement*  
*Dec. 14, 1965*

# CONTENTS

|   | PAGE     |
|---|----------|
| List of Officers and Councillors.....   | I        |
| Iron Discoveries in the State of New York.....  | 1        |
| A Geographic Interpretation of New York City—Part III. By F. V. EMERSON.....  | 3        |
| Tuberculosis and Climate. By ROBERT DE C. WARD.....   | 22       |
| Mylius-Erichsen's Map of North-East Greenland.....  | 23       |
| George Canning Hurlbut (Obituary).....  | 26       |
| The Origin of the Alps. By ALBRECHT PENCK.....  | 65       |
| Camping on the Soufrière of St. Vincent. By EDMUND OTIS HOVEY.....  | 72       |
| The Decline of the Lunar Distance for the Determination of the Time and Longitude at Sea. By G. W. LITTLEHALES..... | 83       |
| The Dying People of Tauu. By WILLIAM CHURCHILL.....   | 86       |
| Aspects of the Coast of Northeast Greenland.....  | 92       |
| Dr. Stein's Two Years of Exploration.....   | 94       |
| Curaçao, a Losing Colonial Venture. By HERDMAN F. CLELAND.....  | 129      |
| The Relation of Geology to Topography. By LAWRENCE MARTIN.....  | 138      |
| Regional Population Groups of Atacama. By ISAIAH BOWMAN.....  | 142, 193 |
| The British Antarctic Expedition. By EDWIN SWIFT BALCH.....   | 212      |
| A Geographical Excursion in Northern Italy and the Alps. By H. F. CLELAND.....                                      | 214      |
| The Forty-ninth Parallel Boundary Line. By G. W. LITTLEHALES.....   | 216      |
| Brazil's Failure to Control the Price of Coffee.....  | 220      |
| The Plateau of the San Francisco Peaks in its Effect on Tree Life. By PERCIVAL LOWELL.....                          | 257, 365 |
| Decline of Farming in Southern-Central New York. By RALPH S. TARR....   | 270      |
| The Fale'Ula Library. By WILLIAM CHURCHILL.....   | 305      |
| The Lessons of the Colorado Canyon. By W. M. DAVIS.....   | 345      |
| The Conquest of Huascarán. By MISS ANNIE S. PECK.....   | 355      |
| The Messina Earthquake. By WILLIAM HERBERT HOBBS.....   | 409      |
| The Operation of Geographic Factors in History. By ELLEN CHURCHILL SEMPLE.....                                      | 422      |
| Honorary and Corresponding Members and Fellows of the American Geographical Society.....                            | 440      |
| Stonington Antarctic Explorers. By EDWIN SWIFT BALCH.....   | 473      |
| Development of Map-making in Austria. By PROF. EUGEN OBERHUMMER..   | 492      |
| The Seventeenth Meeting of German Geographers. By W. JOERG.....   | 496      |
| The Anthropography of some Great Cities. By MARK JEFFERSON.....   | 537      |
| Bernhard Hantzsch's Notes on Northeastern Labrador. By ROBERT STEIN..   | 566      |
| Discovery of the North Pole.....  | 575      |
| Northern Alaska in Winter. By V. STEFÁNSSON.....  | 601      |
| Characteristics of American Railway Traffic: A Study in Transportation Geography. By EMORY R. JOHNSON.....          | 610      |
| Hanging Valleys. By DOUGLAS WILSON JOHNSON.....   | 665      |

|   | PAGE  |
|---|---|
| The Volcano Kilauea. By C. H. HITCHCOCK.....  | 684   |
| Railroads in Asia Minor. By ELLSWORTH HUNTINGTON.....   | 691   |
| Delta Experiments. By ARTHUR L. SMITH.....  | 729   |
| Thomas Jefferson: A Pioneer Student of American Geography. By GEORGE<br>THOMAS SURFACE.....     | 743   |
| Surveys and Maps.....   | 751   |
| The Winnipeg Meeting of the British Association. By ALBERT PERRY BRIG-<br>HAM.....              | 754   |
| Correspondence:   |   |
| The part of the Nile which Col. Chaillé-Long Discovered. Col. Ch.<br>Chaillé-Long.....          | 222   |
| Some Difficulties of Precision in Circumpolar Instrumental Observations.<br>John S. Barnes..... | 696   |
| Obituaries.....   | 26, 36, 164, 285, 584, 704                                |
| The Geographical Record.....  | 28, 99, 154, 224, 279, 383, 454, 502, 578, 622, 698, 759  |
| Book Notices.....   | 49, 126, 175, 239, 287, 391, 459, 509, 585, 629, 705, 767 |
| Current Geographical Papers.....  | 115, 167, 247, 297, 400, 463, 527, 591, 653, 719, 780     |
| New Maps.....   | 37, 111, 165, 251, 301, 405, 468, 532, 598, 660, 724, 785 |
| Accessions to the Library.....  | 41, 118, 171, 239, 287, 391, 459, 509, 585, 629, 705      |
| Transactions of the Society.....  | 36, 108, 164, 237, 285, 760                               |
| Annual Index.....   | 793   |

# AMERICAN GEOGRAPHICAL SOCIETY

---

## OFFICERS AND COUNCILLORS

---

1909

---

### PRESIDENT

ARCHER M. HUNTINGTON

Term expires 1910

### VICE-PRESIDENTS

D. O. MILLS

Term expires 1910

JOHN GREENOUGH

Term expires 1911

ANTON A. RAVEN

Term expires 1912

### FOREIGN CORRESPONDING SECRETARY

PROF. WILLIAM LIBBEY

Term expires 1912

### DOMESTIC CORRESPONDING SECRETARY

ARCHIBALD D. RUSSELL

Term expires 1911

### RECORDING SECRETARY

HAMILTON F. KEAN

Term expires 1910

### TREASURER

HENRY PARISH, JR.

Term expires 1910

### COUNCILLORS

ANDREW G. AGNEW

LEVI HOLBROOK

CHARLES A. PEABODY

W. WATTS SHERMAN

PAUL TUCKERMAN

Terms expire 1910

JOHN S. BARNES

HENRY HOLT

JAMES B. FORD

GEORGE GORDON KING

HERMAN C. VON POST

Terms expire 1911

FRANCIS M. BACON

BANYER CLARKSON

GEORGE W. FOLSOM

J. HAMPDEN ROBB

CHANDLER ROBBINS

Terms expire 1912